

BMS



Bus Management System

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Entities

Bus

Attributes: (PK) Busld, NoOfSeats, Region, DriverName, Plate.

Ticket

Attributes: (PK) TicketId, Price, StartDestination, ArrivalDestination, Availability, (FK) UserId, (FK) BusId.

User

Attributes: (PK) Userld, Name, Role.

Users

- Administrator: Has full access to all functionalities and can manage the system.
- Client: Has limited access to view and interact with their own information.

Actions

- Administrator
- Insert Ticket: Add a new ticket to the database.
- Update Bus Information: Modify the bus information.
- Update Ticket Information: Modify the ticket information.
- Delete Ticket: Remove a ticket record from the database.
- Select All Buses: View all buses in the database.
- Select All Tickets: View all tickets in the database.
- Client
- Select All Available Tickets: View all available tickets in the database.
- Select His/her Tickets: View their own ticket information.
- Update Ticket's User Id and Availability for Booking: Update the ticket's user id to the user's id and set the ticket availability to unavailable.
- Update Ticket's User Id and Availability for Canceling: Remove the user's id from the ticket's user id and set the ticket availability to available.

Entity Relationship Diagram (ERD)

